

CLAIMS

5 1. A method of manufacturing an electronic device
including a step of giving a droplet of a liquid
containing a formation material of a member that
constitutes the electronic device to a plurality of
portions on a substrate while said substrate and a
droplet ejecting portion are moved relatively in an in-
surface direction of said substrate, characterized in
10 that said droplet is given while a position on a
droplet given surface to which the droplet is given is
corrected in accordance with the distribution of
distances between said ejecting portion and said
droplet given surface on said substrate which occurs
15 when said substrate and said ejecting portion are
relatively moved.

20 2. A method of manufacturing an electronic device
including a step of giving a droplet of a liquid
containing a formation material of a member that
constitutes the electronic device to a plurality of
portions on a substrate while said substrate and a
droplet ejecting portion are moved relatively in an in-
surface direction of said substrate, characterized in
25 that said droplet is given while a distance between
said ejecting portion and a droplet given surface on
said substrate is detected, and a position on said

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droplet given surface to which the droplet is given is corrected on the basis of said detection result.

5 3. A method of manufacturing an electronic device as claimed in claim 2, wherein the detection of said distance includes a step of measuring the distances between said ejecting portion and all of the droplet given portions within said droplet given surface.

10 4. A method of manufacturing an electronic device as claimed in claim 2, wherein the detection of said distance includes a step of measuring a distance between said ejecting portion and a specific portion of said droplet given surface.

15 5. A method of manufacturing an electronic device as claimed in claim 2, wherein said detection of the distance includes a step of measuring a distance between said ejecting portion and a specific portion of said droplet given surface, and a step of calculating the distances between said ejecting portion and all of the droplet given portions within said droplet given surface on the basis of said measurement result.

25 6. A method of manufacturing an electronic device as claimed in any one of claims 1 to 5, wherein the correction of said position to which the droplet is

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given is made by maintaining the distance between said ejecting portion and the droplet given surface on said substrate constant.

5 7. A method of manufacturing an electronic device as claimed in any one of claims 1 to 5, wherein the correction of said position to which the droplet is given is made by changing a timing at which the droplet is ejected from said ejecting portion in accordance with the distribution of the distances between said ejecting portion and the droplet given surface on said substrate.

15 8. A method of manufacturing an electronic device as claimed in any one of claims 1 to 5, wherein the correction of said position to which the droplet is given is made by changing an inclination of said substrate in accordance with the distribution of the distances between said ejecting portion and the droplet
20 given surface on said substrate.

25 9. A method of manufacturing an electronic device including a step of giving a droplet of a liquid containing a formation material of a member that constitutes the electronic device to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-

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10. A method of manufacturing an electronic device including a step of giving a droplet of a liquid containing a formation material of a member that constitutes the electronic device to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-surface direction of said substrate, characterized in that said droplet is given while the thickness of said substrate is detected, and a droplet given position on said substrate surface is corrected on the basis of said detection result.

11. A method of manufacturing an electronic device as claimed in claim 10, wherein said detection of the thickness includes a step of measuring the thicknesses of all of said droplet given portions on said substrate surface.

12. A method of manufacturing an electronic device as claimed in claim 10, wherein said detection of the thickness includes a step of measuring the

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Discussion**
 6. **Conclusion**
 7. **References**
 8. **Appendix**
 9. **Index**
 10. **Table of Contents**
 11. **Figure 1**
 12. **Figure 2**
 13. **Figure 3**
 14. **Figure 4**
 15. **Figure 5**
 16. **Figure 6**
 17. **Figure 7**
 18. **Figure 8**
 19. **Figure 9**
 20. **Figure 10**
 21. **Figure 11**
 22. **Figure 12**
 23. **Figure 13**
 24. **Figure 14**
 25. **Figure 15**
 26. **Figure 16**
 27. **Figure 17**
 28. **Figure 18**
 29. **Figure 19**
 30. **Figure 20**
 31. **Figure 21**
 32. **Figure 22**
 33. **Figure 23**
 34. **Figure 24**
 35. **Figure 25**
 36. **Figure 26**
 37. **Figure 27**
 38. **Figure 28**
 39. **Figure 29**
 40. **Figure 30**
 41. **Figure 31**
 42. **Figure 32**
 43. **Figure 33**
 44. **Figure 34**
 45. **Figure 35**
 46. **Figure 36**
 47. **Figure 37**
 48. **Figure 38**
 49. **Figure 39**
 50. **Figure 40**
 51. **Figure 41**
 52. **Figure 42**
 53. **Figure 43**
 54. **Figure 44**
 55. **Figure 45**
 56. **Figure 46**
 57. **Figure 47**
 58. **Figure 48**
 59. **Figure 49**
 60. **Figure 50**
 61. **Figure 51**
 62. **Figure 52**
 63. **Figure 53**
 64. **Figure 54**
 65. **Figure 55**
 66. **Figure 56**
 67. **Figure 57**
 68. **Figure 58**
 69. **Figure 59**
 70. **Figure 60**
 71. **Figure 61**
 72. **Figure 62**
 73. **Figure 63**
 74. **Figure 64**
 75. **Figure 65**
 76. **Figure 66**
 77. **Figure 67**
 78. **Figure 68**
 79. **Figure 69**
 80. **Figure 70**
 81. **Figure 71**
 82. **Figure 72**
 83. **Figure 73**
 84. **Figure 74**
 85. **Figure 75**
 86. **Figure 76**
 87. **Figure 77**
 88. **Figure 78**
 89. **Figure 79**
 90. **Figure 80**
 91. **Figure 81**
 92. **Figure 82**
 93. **Figure 83**
 94. **Figure 84**
 95. **Figure 85**
 96. **Figure 86**
 97. **Figure 87**
 98. **Figure 88**
 99. **Figure 89**
 100. **Figure 90**
 101. **Figure 91**
 102. **Figure 92**
 103. **Figure 93**
 104. **Figure 94**
 105. **Figure 95**
 106. **Figure 96**
 107. **Figure 97**
 108. **Figure 98**
 109. **Figure 99**
 110. **Figure 100**
 111. **Figure 101**
 112. **Figure 102**
 113. **Figure 103**
 114. **Figure 104**
 115. **Figure 105**
 116. **Figure 106**
 117. **Figure 107**
 118. **Figure 108**
 119. **Figure 109**
 120. **Figure 110**
 121. **Figure 111**
 122. **Figure 112**
 123. **Figure 113**
 124. **Figure 114**
 125. **Figure 115**
 126. **Figure 116**
 127. **Figure 117**
 128. **Figure 118**
 129. **Figure 119**
 130. **Figure 120**
 131. **Figure 121**
 132. **Figure 122**
 133. **Figure 123**
 134. **Figure 124**
 135. **Figure 125**
 136. **Figure 126**
 137. **Figure 127**
 138. **Figure 128**
 139. **Figure 129**
 140. **Figure 130**
 141. **Figure 131**
 142. **Figure 132**
 143. **Figure 133**
 144. **Figure 134**
 145. **Figure 135**
 146. **Figure 136**
 147. **Figure 137**
 148. **Figure 138**
 149. **Figure 139**
 150. **Figure 140**
 151. **Figure 141**
 152. **Figure 142**
 153. **Figure 143**
 154. **Figure 144**
 155. **Figure 145**
 156. **Figure 146**
 157. **Figure 147**
 158. **Figure 148**
 159. **Figure 149**
 160. **Figure 150**
 161. **Figure 151**
 162. **Figure 152**
 163. **Figure 153**
 164. **Figure 154**
 165. **Figure 155**
 166. **Figure 156**
 167. **Figure 157**
 168. **Figure 158**
 169. **Figure 159**
 170. **Figure 160**
 171. **Figure 161**
 172. **Figure 162**
 173. **Figure 163**
 174. **Figure 164**
 175. **Figure 165**
 176. **Figure 166**
 177. **Figure 167**
 178. **Figure 168**
 179. **Figure 169**
 180. **Figure 170**
 181. **Figure 171**
 182. **Figure 172**
 183. **Figure 173**
 184. **Figure 174**
 185. **Figure 175**
 186. **Figure 176**
 187. **Figure 177**
 188. **Figure 178**
 189. **Figure 179**
 190. **Figure 180**
 191. **Figure 181**
 192. **Figure 182**
 193. **Figure 183**
 194. **Figure 184**
 195. **Figure 185**
 196. **Figure 186**
 197. **Figure 187**
 198. **Figure 188**
 199. **Figure 189**
 200. **Figure 190**
 201. **Figure 191**
 202. **Figure 192**
 203. **Figure 193**
 204. **Figure 194**
 205. **Figure 195**
 206. **Figure 196**
 207. **Figure 197**
 208. **Figure 198**
 209. **Figure 199**
 210. **Figure 200**
 211. **Figure 201**
 212. **Figure 202**
 213. **Figure 203**
 214. **Figure 204**
 215. **Figure 205**
 216. **Figure 206**
 217. **Figure 207**
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the correction of said position to which the droplet is given is made by changing an inclination of said substrate in accordance with the distribution of the thickness of said substrate.

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17. A method of manufacturing an electronic device as claimed in ~~any one of claims 1 to 16~~, wherein the droplet is given through an ink jet method.

18. A method of manufacturing an electronic device as claimed in claim 17, wherein said ink jet method is of a system of giving a thermal energy to the liquid to produce a bubble, to thereby eject the droplet.

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19. A method of manufacturing an electronic device as claimed in claim 17, wherein said ink jet method is of a system of ejecting the droplet by a piezo-electric element.

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20. A method of manufacturing an electron source having a plurality of electron emission elements, characterized in that there is provided a step of giving a droplet of a liquid containing a formation material of an electrically conductive member that constitutes said electron emission element to a plurality of portions on a substrate while said

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substrate and a droplet ejecting portion are moved relatively in an in-surface direction of said substrate, and in that said droplet is given while a position on a droplet given surface to which the droplet is given is corrected in accordance with the distribution of distances between said ejecting portion and said droplet given surface on said substrate which occurs when said substrate and said ejecting portion are relatively moved.

21. A method of manufacturing an electron source having a plurality of electron emission elements, characterized in that there is provided a step of giving a droplet of a liquid containing a formation material of an electrically conductive member that constitutes said electron emission element to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-surface direction of said substrate, and in that said droplet is given while a distance between said ejecting portion and a droplet given surface on said substrate is detected, and a position on said droplet given surface to which the droplet is given is corrected on the basis of said detection result.

22. A method of manufacturing an electron source

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25. A method of manufacturing an electron source as claimed in any one of claims 20 to 24, wherein the correction of said position to which the droplet is given is made by maintaining the distance between said ejecting portion and the droplet given surface on said substrate constant.

25. A method of manufacturing an electron source as claimed in any one of claims 20 to 24, wherein the correction of said position to which the droplet is given is made by maintaining the distance between said ejecting portion and the droplet given surface on said substrate constant.

25. A method of manufacturing an electron source as claimed in any one of claims 20 to 24, wherein the correction of said position to which the droplet is given is made by maintaining the distance between said ejecting portion and the droplet given surface on said substrate constant.

26. A method of manufacturing an electron source as claimed in any one of claims 20 to 24, wherein the correction of said position to which the droplet is given is made by changing a timing at which the droplet is ejected from said ejecting portion in accordance with the distribution of the distances between said ejecting portion and the droplet given surface on said substrate.

27. A method of manufacturing an electron source as claimed in any one of claims 20 to 24, wherein the correction of said position to which the droplet is given is made by changing an inclination of said substrate in accordance with the distribution of the distances between said ejecting portion and the droplet given surface on said substrate.

28. A method of manufacturing an electron source having a plurality of electron emission elements, characterized in that there is provided a step of giving a droplet of a liquid containing a formation material of an electrically conductive member that constitutes said electron emission element to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-surface direction of said substrate, and in that said droplet is given while a

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specific portion on said substrate surface.

32. A method of manufacturing an electron source as claimed in claim 29, wherein said detection of the thickness includes a step of measuring a thickness of a specific portion on said substrate surface, and a step of calculating the thicknesses of all of said droplet given portions on said substrate surface on the basis of said measurement result.

33. A method of manufacturing an electron source as claimed in any one of claims 28 to 32, wherein the correction of said position to which the droplet is given is made by maintaining the distance between said ejecting portion and the droplet given surface on said substrate constant.

34. A method of manufacturing an electron source as claimed in any one of claims 28 to 32, wherein the correction of said position to which the droplet is given is made by changing a timing at which the droplet is ejected from said ejecting portion in accordance with the distribution of the thicknesses of said substrate.

35. A method of manufacturing an electron source as claimed in any one of claims 28 to 32, wherein the

correction of said position to which the droplet is given is made by changing an inclination of said substrate in accordance with the distribution of the thicknesses of said substrate.

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36. A method of manufacturing an electron source having a plurality of electron emission elements with an electrically conductive film having an electron emission portion between a pair of electrodes, characterized in that the formation of said electrically conductive film includes a step of giving a droplet of a liquid containing a formation material of said electrically conductive film to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-surface direction of said substrate, and in that said droplet is given while a position on a droplet given surface to which the droplet is given is corrected in accordance with the distribution of distances between said ejecting portion and said droplet given surface on said substrate which occurs when said substrate and said ejecting portion are relatively moved.

37. A method of manufacturing an electron source having a plurality of electron emission elements with an electrically conductive film having an electron emission portion between a pair of electrodes,

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characterized in that the formation of said electrically conductive film includes a step of giving a droplet of a liquid containing a formation material of said electrically conductive film to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-surface direction of said substrate, and in that said droplet is given while a distance between said ejecting portion and the droplet given surface on said substrate is detected, and a position on said droplet given surface to which the droplet is given is corrected on the basis of said detection result.

38. A method of manufacturing an electron source as claimed in claim 37, wherein said detection of the distance includes a step of measuring the distances between said ejecting portion and all of said droplet given portions within said droplet given surface.

39. A method of manufacturing an electron source as claimed in claim 37, wherein said detection of the distance includes a step of measuring a distance between said ejecting portion and a specific portion of said droplet given surface.

40. A method of manufacturing an electron source as claimed in claim 37, wherein said detection of the

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distance includes a step of measuring a distance
between said ejecting portion and a specific portion of
said droplet given surface, and a step of calculating
the distances between said ejecting portion and all of
5 the droplet given portions within said droplet given
surface on the basis of said measurement result.

41. A method of manufacturing an electron source
as claimed in any one of claims 36 to 40, wherein the
correction of said position to which the droplet is
10 given is made by maintaining the distance between said
ejecting portion and the droplet given surface on said
substrate constant.

42. A method of manufacturing an electron source
as claimed in any one of claims 36 to 40, wherein the
correction of said position to which the droplet is
15 given is made by changing a timing at which the droplet
is ejected from said ejecting portion in accordance
20 with the distribution of the distances between said
ejecting portion and the droplet given surface on said
substrate.

43. A method of manufacturing an electron source
as claimed in any one of claims 36 to 40, wherein the
correction of said position to which the droplet is
25 given is made by changing an inclination of said

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substrate in accordance with the distribution of the distances between said ejecting portion and the droplet given surface on said substrate.

5 44. A method of manufacturing an electron source having a plurality of electron emission elements with an electrically conductive film having an electron emission portion between a pair of electrodes, characterized in that the formation of said
10 electrically conductive film includes a step of giving a droplet of a liquid containing a formation material of said electrically conductive film to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-
15 surface direction of said substrate, and in that said droplet is given while a position on said substrate surface to which the droplet is given is corrected in accordance with the distribution of thicknesses of said substrate.

20 45. A method of manufacturing an electron source having a plurality of electron emission elements with an electrically conductive film having an electron emission portion between a pair of electrodes,
25 characterized in that the formation of said electrically conductive film includes a step of giving a droplet of a liquid containing a formation material

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5 of said electrically conductive film to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-surface direction of said substrate, and in that said droplet is given while the thickness of said substrate is detected, and a position on said substrate surface to which the droplet is given is corrected on the basis of said detection result.

10 46. A method of manufacturing an electron source as claimed in claim 45, wherein said detection of the thickness includes a step of measuring the thicknesses of all of said droplet given portions on said substrate surface.

15 47. A method of manufacturing an electron source as claimed in claim 45, wherein said detection of the thickness includes a step of measuring a thickness of a specific portion on said substrate surface.

20 48. A method of manufacturing an electron source as claimed in claim 45, wherein said detection of the thickness includes a step of measuring a thickness of a specific portion on said substrate surface, and a step
25 of calculating the thicknesses of all of said droplet given portions on said substrate surface on the basis of said measurement result.

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49. A method of manufacturing an electron source as claimed in any one of claims 44 to 48, wherein the correction of said position to which the droplet is given is made by maintaining the distance between said ejecting portion and the droplet given surface on said substrate constant.

50. A method of manufacturing an electron source as claimed in any one of claims 44 to 48, wherein the correction of said position to which the droplet is given is made by changing a timing at which the droplet is ejected from said ejecting portion in accordance with the distribution of the thicknesses of said substrate.

51. A method of manufacturing an electron source as claimed in any one of claims 44 to 48, wherein the correction of said position to which the droplet is given is made by changing an inclination of said substrate in accordance with the distribution of the thicknesses of said substrate.

52. A method of manufacturing an electron source having a plurality of electron emission elements with an electrically conductive film having an electron emission portion between a pair of electrodes, characterized in that the formation of said pair of

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53. A method of manufacturing an electron source having a plurality of electron emission elements with an electrically conductive film having an electron emission portion between a pair of electrodes, characterized in that the formation of said pair of electrodes and said electrically conductive film includes a step of giving the respective droplets of a liquid containing a formation material of said pair of electrodes and a liquid containing a formation material of said electrically conductive film to a plurality of portions on a substrate while said substrate and a droplet ejecting portion are moved relatively in an in-

emission portion between a pair of electrodes,
characterized in that the formation of said pair of
electrodes and said electrically conductive film
includes a step of giving the respective droplets of a
liquid containing a formation material of said pair of
electrodes and a liquid containing a formation material
of said electrically conductive film to a plurality of
portions on a substrate while said substrate and a
droplet ejecting portion are moved relatively in an in-
surface direction of said substrate, and in that said
droplets are given while a position on a substrate
surface to which the droplets are given is corrected in
accordance with the distribution of thicknesses of said
substrate.

61. A method of manufacturing an electron source
having a plurality of electron emission elements with
an electrically conductive film having an electron
emission portion between a pair of electrodes,
characterized in that the formation of said pair of
electrodes and said electrically conductive film
includes a step of giving the respective droplets of a
liquid containing a formation material of said pair of
electrodes and a liquid containing a formation material
of said electrically conductive film to a plurality of
portions on a substrate while said substrate and a
droplet ejecting portion are moved relatively in an in-

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65. A method of manufacturing an electron source
as claimed in any one of claims 60 to 64, wherein the

correction of said position to which the droplet is given is made by maintaining the distance between said ejecting portion and the droplet given surface on said substrate constant.

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66. A method of manufacturing an electron source as claimed in any one of claims 60 to 64, wherein the correction of said position to which the droplet is given is made by changing a timing at which the droplet is ejected from said ejecting portion in accordance with the distribution of the thicknesses of said substrate.

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67. A method of manufacturing an electron source as claimed in any one of claims 60 to 64, wherein the correction of said position to which the droplet is given is made by changing an inclination of said substrate in accordance with the distribution of the thicknesses of said substrate.

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68. A method of manufacturing an electron source as claimed in ~~any one of claims 20 to 67~~, wherein said electron source is an electron source including a plurality of electron emission element columns each having a plurality of electron emission elements connected between a pair of wirings.

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CLAIM 68

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69. A method of manufacturing an electron source
as claimed in ~~any one of claims 20 to 67~~, wherein said
electron source is an electron source in which a
plurality of electron emission elements are arranged in
matrix by a plurality of row wirings and a plurality of
column wirings.

70. A method of manufacturing an electron source
as claimed in ~~any one of claims 20 to 69~~, wherein said
droplet is given through an ink jet method.

71. A method of manufacturing an electron source
as claimed in claim 70, wherein said ink jet method is
of a system of giving a thermal energy to the liquid to
produce a bubble, to thereby eject the droplet.

72. A method of manufacturing an electron source
as claimed in claim 70, wherein said ink jet method is
of a system of ejecting the droplet by a piezo-electric
element.

73. A method of manufacturing an image forming
apparatus having an electron source and an image
forming member onto which electrons are irradiated from
said electron source, characterized in that said
electron source is manufactured by ~~any one of the~~
~~above-described methods as claimed in claims 20 to 72.~~

74. A device of manufacturing an electronic device, characterized by comprising: an ejecting portion which ejects a droplet of a liquid containing a formation material of a member that constitutes the electronic device; means for relatively moving a substrate on which said electronic device is formed and said ejecting portion in an in-surface direction of said substrate; means for detecting a distance between said ejecting portion and a droplet given surface on said substrate; and means for controlling a position on said droplet given surface to which said droplet is given on the basis of said detection result.

75. A device of manufacturing an electronic device as claimed in claim 74, wherein said means for detecting the distance includes a mechanism for measuring the distances between said ejecting portion and all of the droplet given portions within said droplet given surface.

76. A device of manufacturing an electronic device as claimed in claim 74, wherein said means for detecting the distance includes a mechanism for measuring a distance between said ejecting portion and a specific portion of said droplet given surface.

77. A device of manufacturing an electronic

device as claimed in claim 74, wherein said means for detecting the distance includes a mechanism for measuring a distance between said ejecting portion and a specific portion of said droplet given surface, and a mechanism for calculating the distances between said ejecting portion and all of the droplet given portions within said droplet given surface on the basis of said measurement result.

78. A device of manufacturing an electronic device as claimed in any one of claims 74 to 77, wherein said means for controlling the position to which the droplet is given includes a mechanism for maintaining the distance between said ejecting portion and the droplet given surface on said substrate constant.

79. A device of manufacturing an electronic device as claimed in any one of claims 74 to 77, wherein said means for controlling the position to which the droplet is given includes a mechanism for controlling a timing at which the droplet is ejected from said ejecting portion.


80. A device of manufacturing an electronic device as claimed in any one of claims 74 to 77, wherein said means for controlling the position to

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which the droplet is given includes a mechanism for controlling an inclination of said substrate.

5 81. A device of manufacturing an electronic device, characterized by comprising: an ejecting portion which ejects a droplet of a liquid containing a formation material of a member that constitutes the electronic device; means for relatively moving a substrate on which said electronic device is formed and said ejecting portion in an in-surface direction of said substrate; means for detecting a thickness of said substrate; and means for controlling a position on said substrate surface to which said droplet is given on the basis of said detection result.

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82. A device of manufacturing an electronic device as claimed in claim 81, wherein said means for detecting the thickness includes a mechanism for measuring the thicknesses of all of said droplet given portions on said substrate surface.

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83. A device of manufacturing an electronic device as claimed in claim 81, wherein said means for detecting the thickness includes a mechanism for measuring a thickness of a specific portion on said substrate surface.

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84. A device of manufacturing an electronic device as claimed in claim 81, wherein said means for detecting the thickness includes a mechanism for measuring a thickness of a specific portion on said substrate surface, and a mechanism for calculating the thicknesses of all of said droplet given portions on said substrate surface on the basis of said measurement result.

85. A device of manufacturing an electronic device as claimed in any one of claims 81 to 84, wherein said means for controlling the droplet given position maintains the distance between the ejecting portion and the droplet given surface on said substrate constant.

86. A device of manufacturing an electronic device as claimed in any one of claims 81 to 84, wherein said means for controlling the position to which the droplet is given includes a mechanism for controlling a timing at which the droplet is ejected from said ejecting portion.

87. A device of manufacturing an electronic device as claimed in any one of claims 81 to 84, wherein said means for controlling the position to which the droplet is given includes a mechanism for

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controlling an inclination of said substrate.

A 88. A device of manufacturing an electronic
device as claimed in ~~any one of claims 74 to 87~~,
5 wherein said ejecting portion comprises a nozzle of an
ink jet device.

89. A device of manufacturing an electronic
device as claimed in claim 88, wherein said ink jet
10 device is of a system of giving a thermal energy to the
liquid to produce a bubble, to thereby eject the
droplet.

90. A device of manufacturing an electronic
15 device as claimed in claim 88, wherein said ink jet
device is of a system of ejecting the droplet by a
piezo-electric element.

91. A device of manufacturing an electronic
20 device as claimed in any one of claims 74 to 87,
wherein said electronic device comprises an electron
source including a plurality of electron emission
elements.

25 92. A device of manufacturing an electronic
device as claimed in claim 91, wherein said electron
source comprises an electron source including a

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plurality of electron emission element columns having a plurality of electron emission elements connected between a pair of wirings.

5 98. A device of manufacturing an electronic
device as claimed in claim 91, wherein said electron
source comprises an electron source in which a
plurality of electron emission elements are arranged in
matrix by a plurality of row wirings and a plurality of
column wirings.

94. A device of manufacturing an electronic
device as claimed in ~~any one of claims 91 to 93,~~ ^{CLAIM 91}
wherein said electron emission element comprises an
electron emission element including an electrically
conductive film having an electron emission portion
between a pair of electrodes.